

Fig. 2.

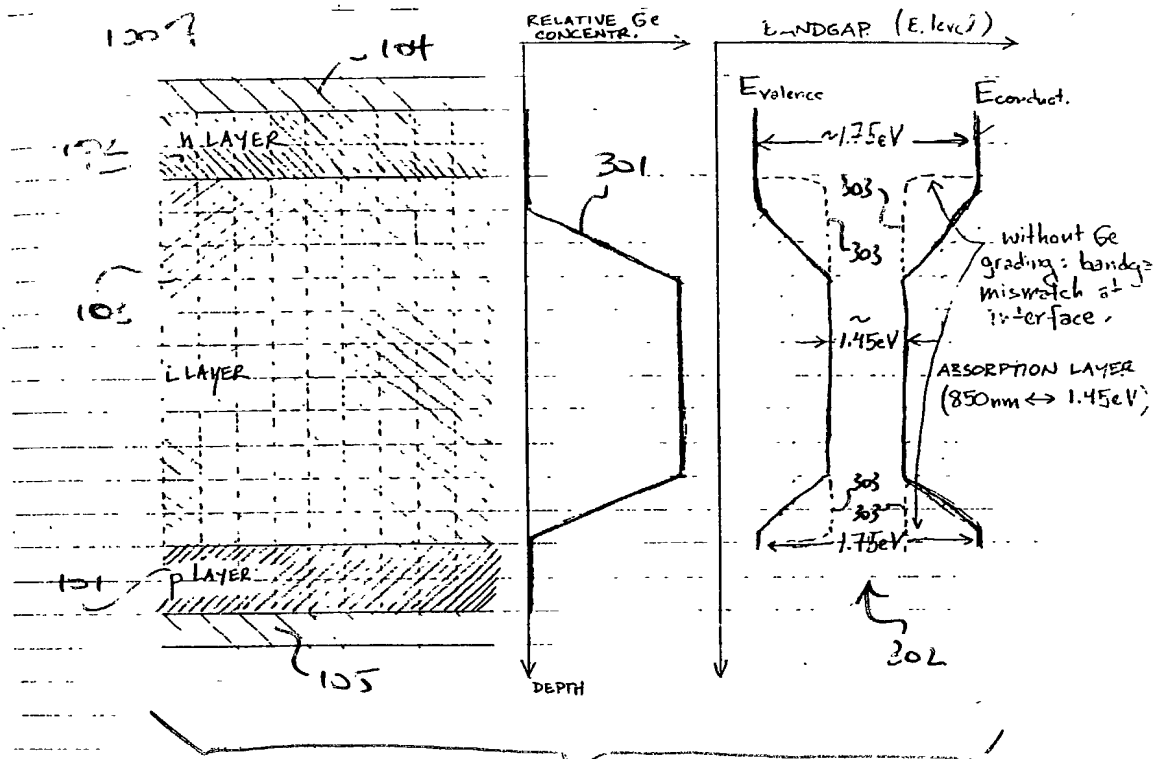
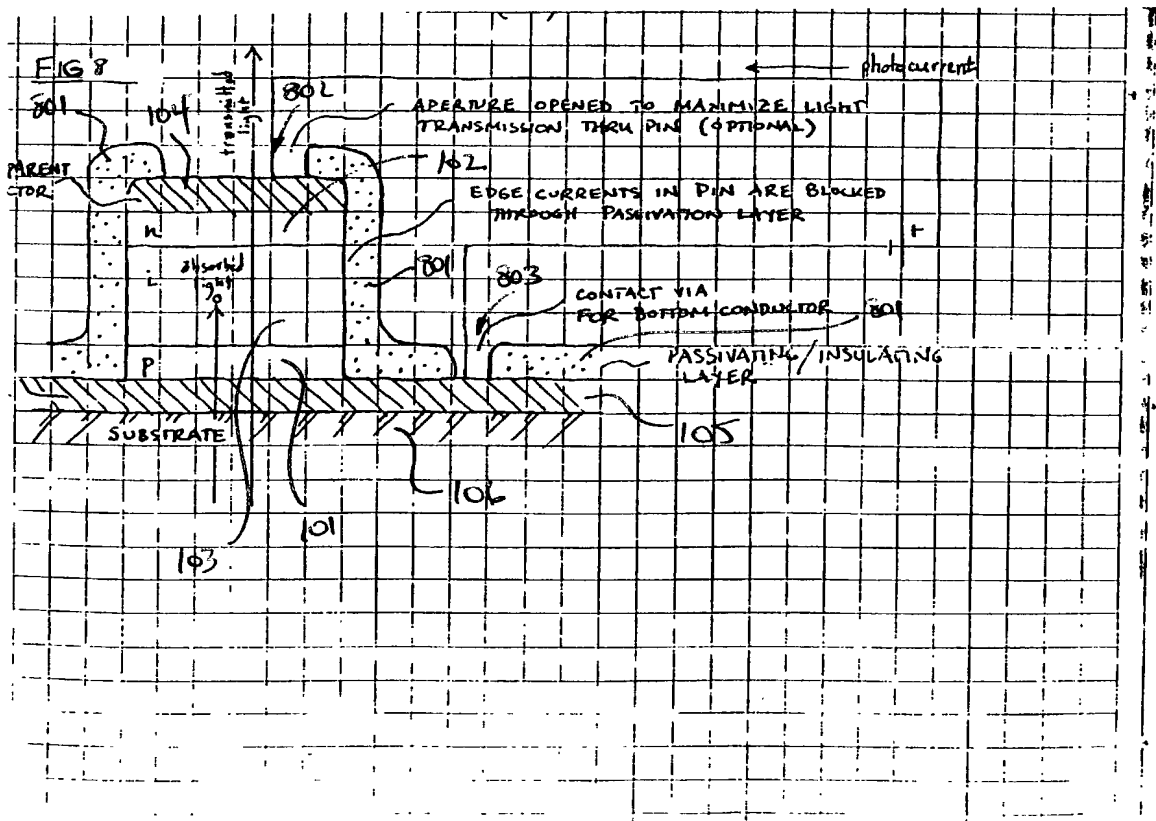
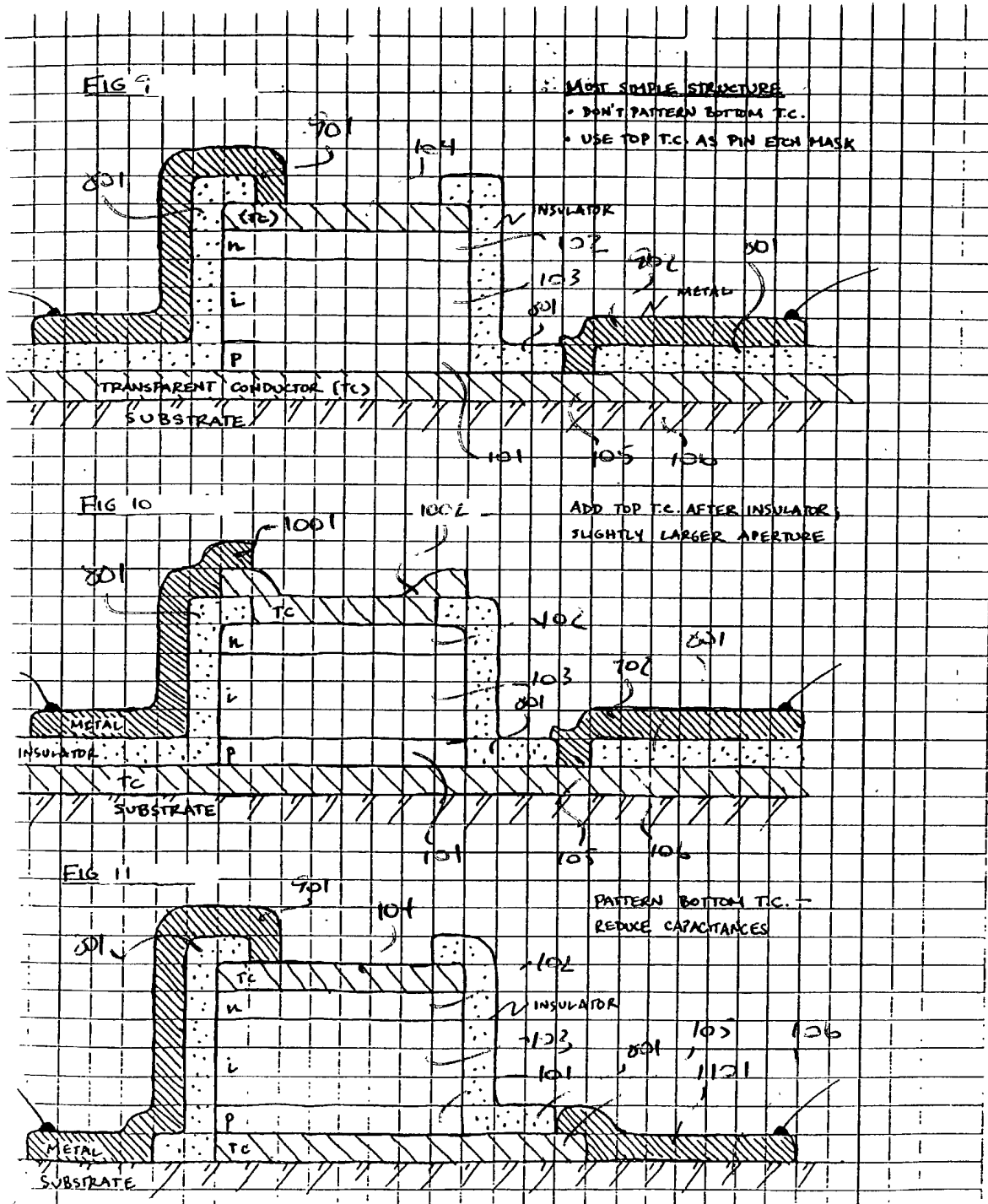


Fig. 3





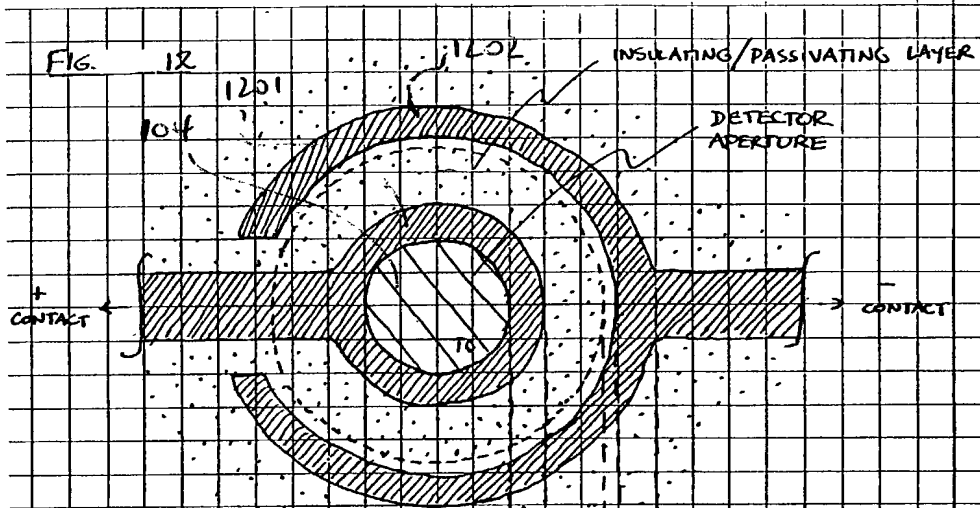


Fig. 13

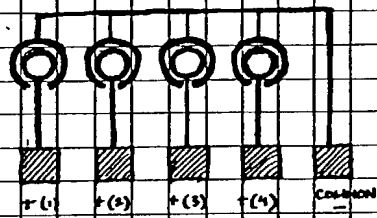
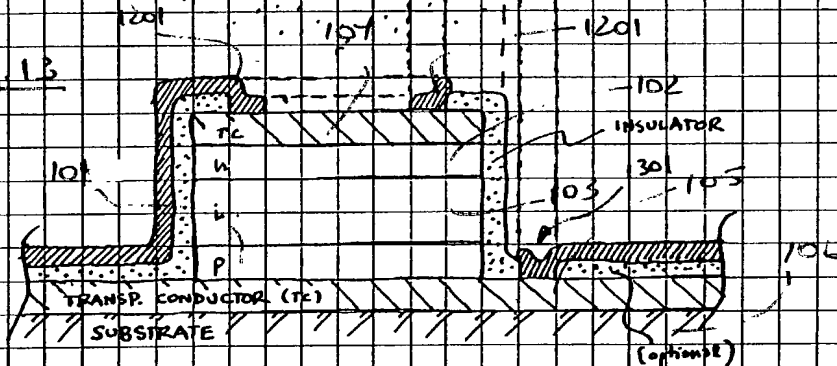


Fig. 14

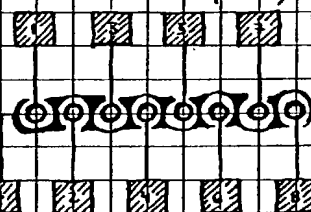
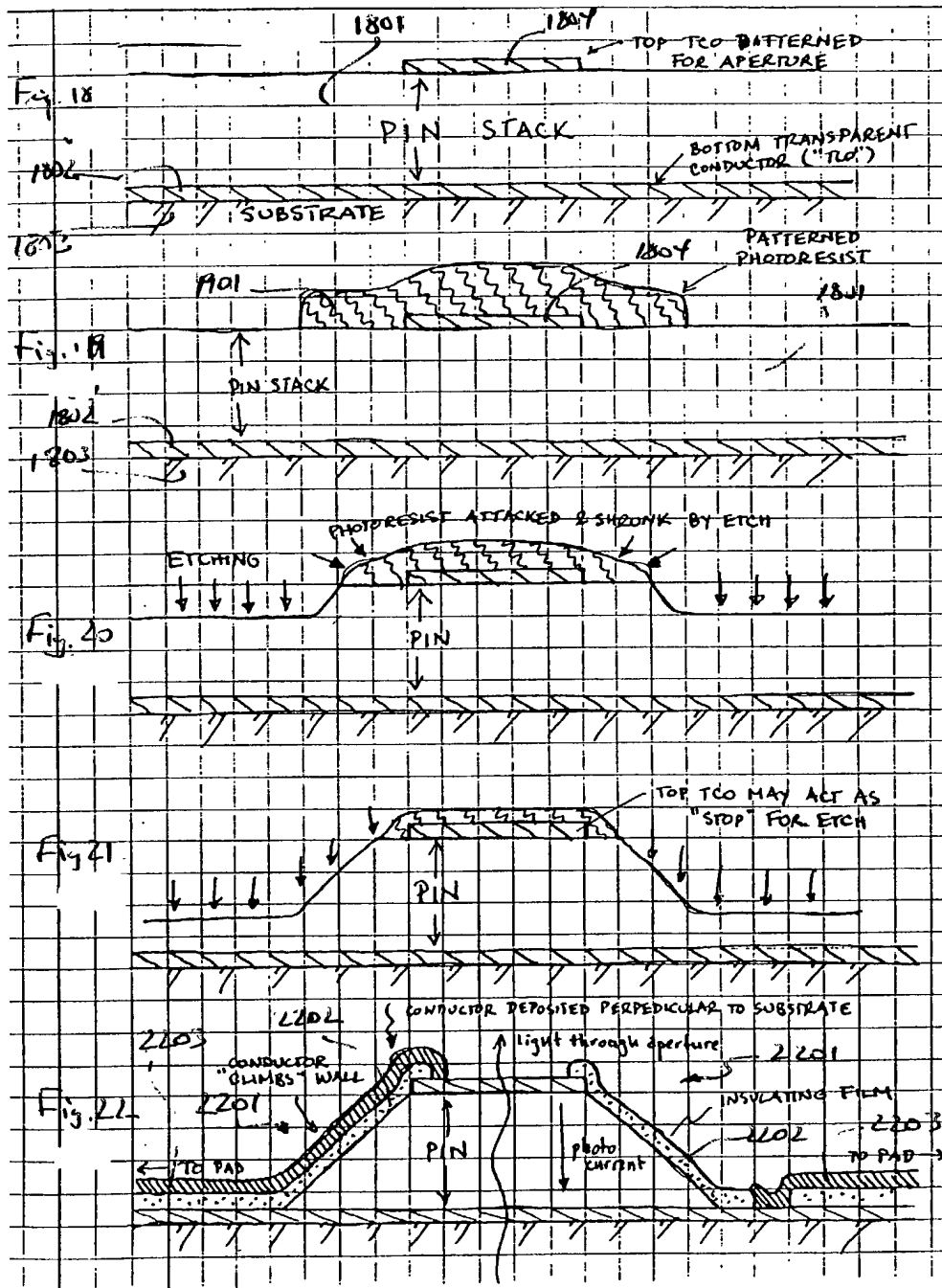
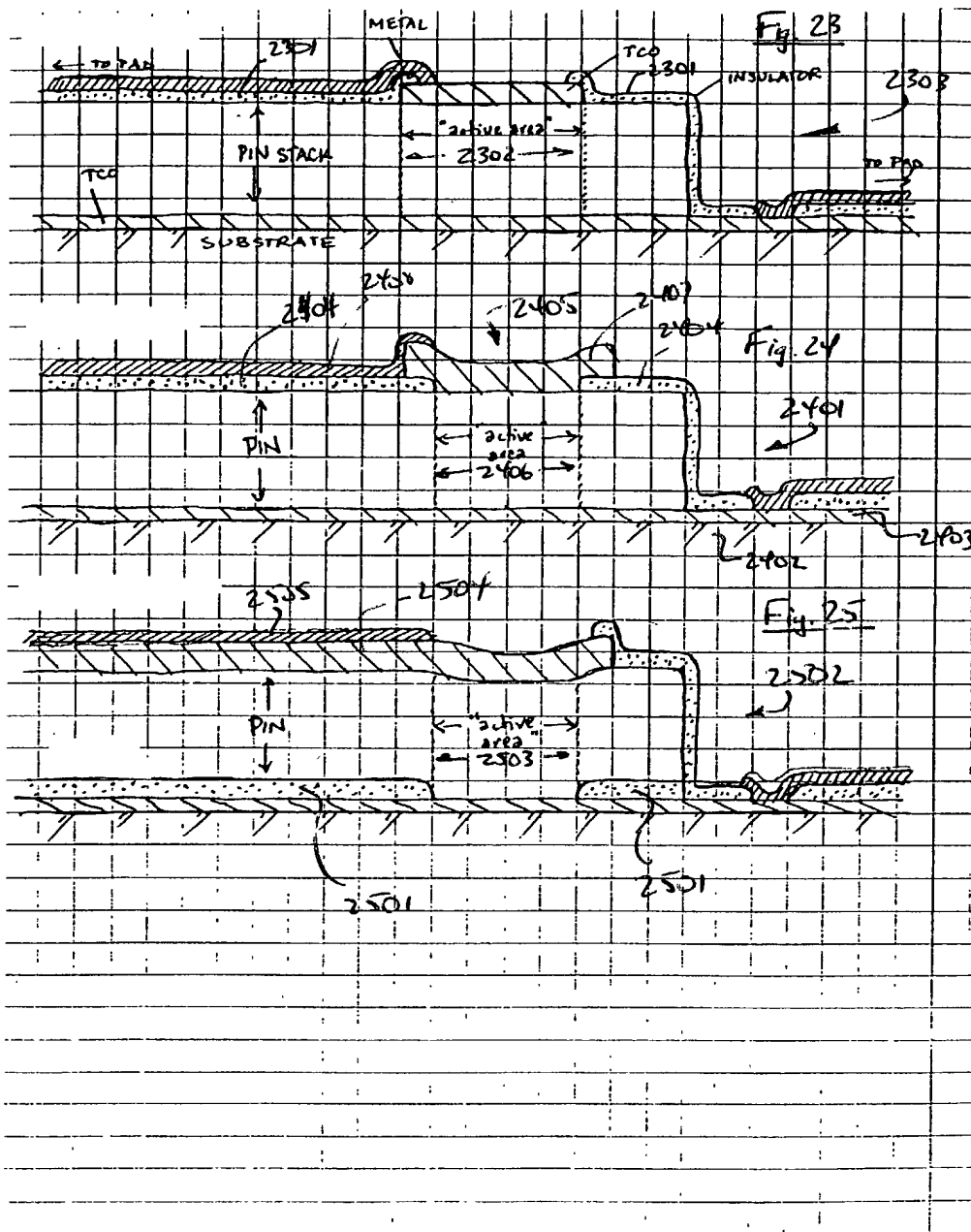
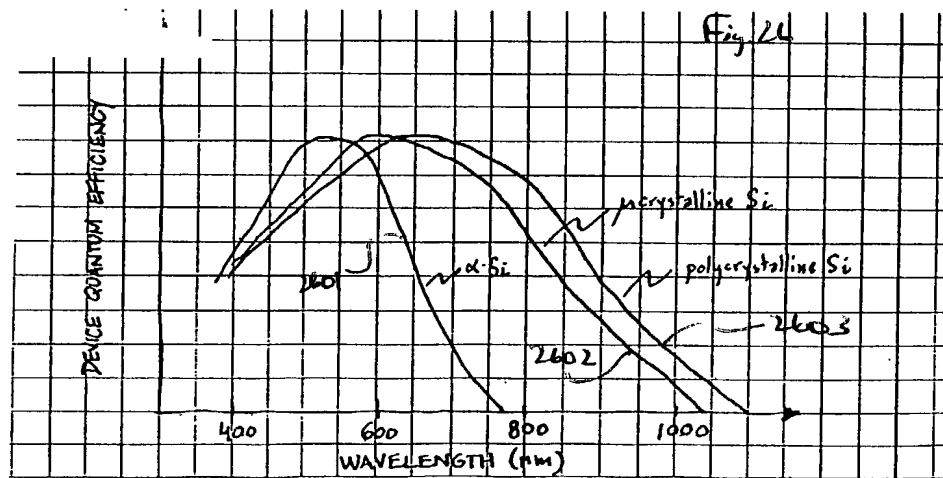
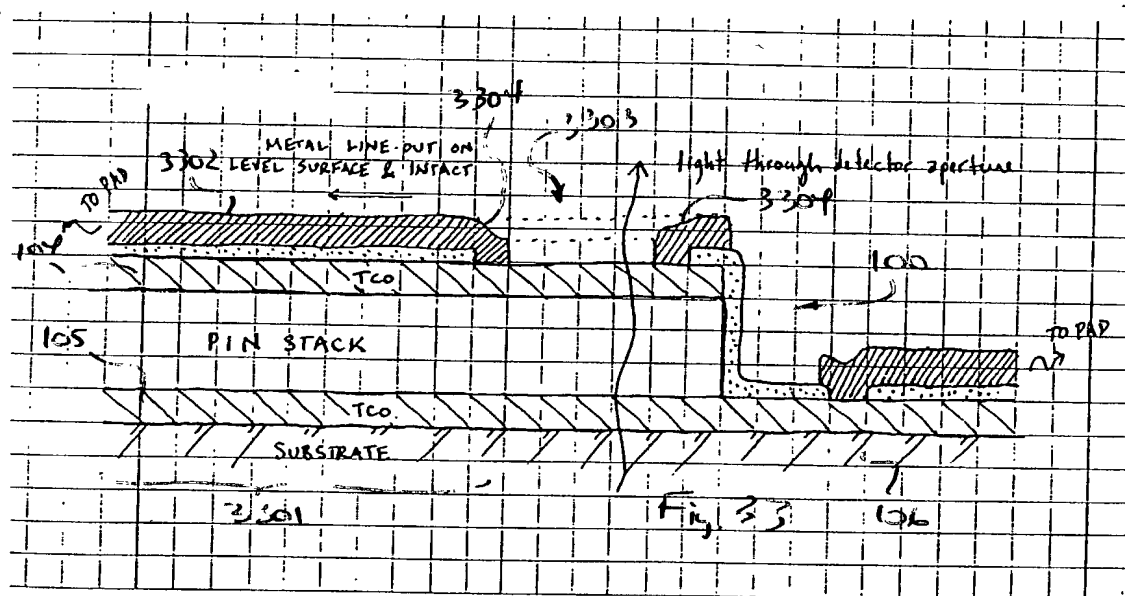


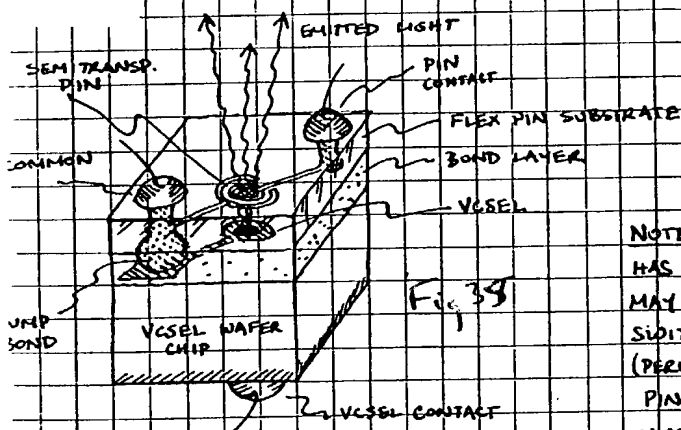
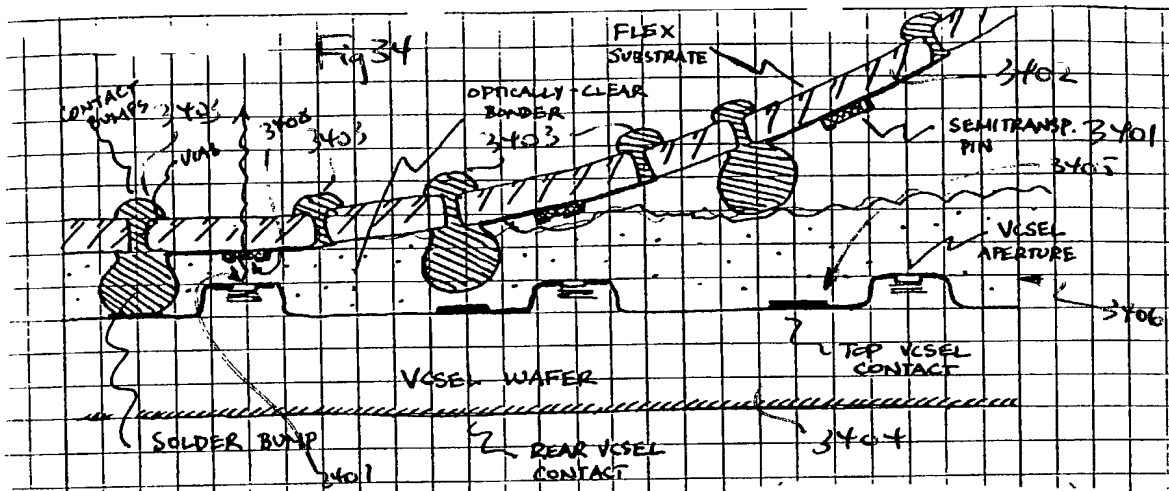
Fig. 15



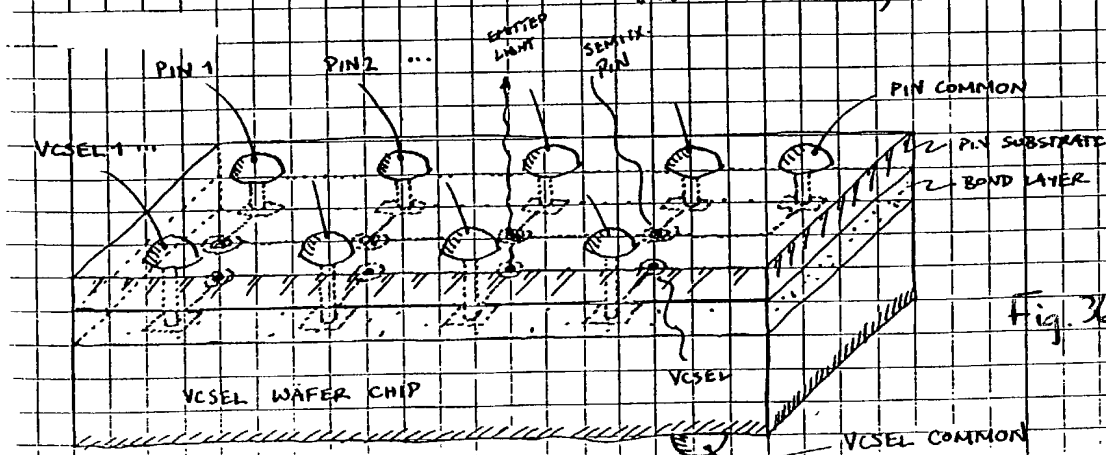


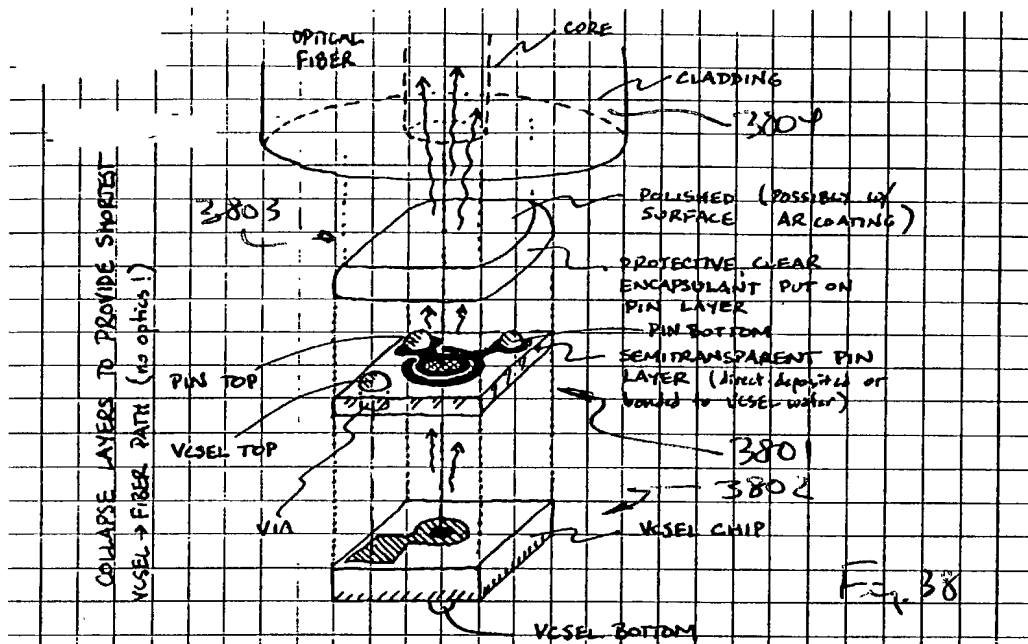






NOTE: ALTERNATIVE CONFIGURATION HAS 3 TOP CONTACTS (NO COMMON); MAY BE PREFERABLE FOR HIGH-SPD. SWITCHING (PERHAPS EVEN FORM HOLE THROUGH PIN SUBSTRATE & BOND LAYER TO VCSEL TOP CONTACT).





... SUCH A PACKAGE WOULD ALLOW LOW-COST, DIRECT COUPLING IN A FIBER CONNECTOR (VCSEL APERTURE $< 25 \mu\text{m}$ AND MULTIMODE FIBER CORE $\approx 50-62.5 \mu\text{m}$; VCSEL BEAM DIVERGENCE $\leq 20^\circ$, AND PIN LAYER IS THIN).

